

Title (en)

METHOD AND APPARATUS FOR SILICON DEPOSITION IN A FLUIDIZED-BED REACTOR

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ABSCHIEDUNG VON SILIZIUM IN EINEM WIRBELSCHICHTREAKTOR

Title (fr)

PROCEDE ET APPAREIL DE DEPOT DE SILICIUM DANS UN REACTEUR A LIT FLUIDISE

Publication

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Application

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Abstract (en)

[origin: WO9641036A2] Silicon beads (102) are produced by chemical vapor deposition (CVD) on seed particles (102) generated internal to a CVD reactor (101). The reactor (101) has multiple zones, including an inlet zone (116) where beads (102) are maintained in a submerged spouted bed and an upper zone (118, 120) where beads are maintained in a bubbling fluidized bed. A tapered portion (118) of the upper zone (118, 120) segregates beads by size. Systems for inspecting, sorting and transporting product beads are also disclosed.

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C23C 16/24; B01J 8/24

IPC 8 full level

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Citation (examination)

THE CANADIAN JOURNAL OF CHEMICAL ENGINEERING, Volume 70, October 1992, T. Isahikura et al., "Behaviour of Fine Particles in a Liquid-Solid Spouted Bed Consisting of Binary Mixtures", pages 880 - 886

Cited by

DE102005042753A1; FR3126231A1; US7922990B2; WO2014035878A1; US10105669B2; US10265671B2; WO2023021256A1

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